

Title: [Consumer Drones Market Shares, Strategy, and Forecasts, Worldwide, 2016 to 2022](#)

WinterGreen Research announces that it has published a new study Camera Drones: Market Shares, Strategy, and Forecasts, Worldwide, 2016 to 2022. The 2016 study has 529 pages, 214 tables and figures. Worldwide consumer drone markets are poised to achieve significant growth with the use of cameras on stable flying platforms that are used to help implement video and picture taking from the air. Activity visualization from the air lets users share images and videos that are interesting and help build relationships.

Camera drones use automated process to make socialization more interesting. Drones provide better, more flexible visualization for sharing on social networks. Smart drone cameras provide the prospect of building social networks that are stronger and have increasingly further outreach. Smart consumer drones connect seamlessly and securely to the Internet, permitting instant upload of videos and images. The camera drones can connect to each other, providing the prospect of filmmaking that comes from stitching together video of a single scene shot from multiple angles.

Camera drone technology has reached a level of maturity that has put these systems at the forefront of picture taking modernization. People around the entire world are adapting to drone availability, using aerial cameras to visualize daily activities from up in the air. Use cases are evolving rapidly. Video, specialized video, targeted video, and high quality image systems are offered.

Consumer photography drones are enormously popular as flying cameras, lifting cameras so every person who wants it can rise above the earth to look down from above. Photography drones are set to make every industry more productive with better, more flexible visualization. Photography drone uses provide the prospect of trillions of dollars in economic growth. Drones connect seamlessly and securely to the Internet and to each other.

Photography drone aerial vehicle (UAV) technology has reached a level of maturity that has permitted DJI to garner \$1 billion in revenue in 2015, doubling their revenue in one year. This achievement puts the photography drone systems at the forefront of aerospace manufacturing. Every industry and around the entire world vendors are adapting to drone availability. Use cases are evolving rapidly. Video, photos, specialized video, targeted video, and high resolution images systems are offered.

According to Susan Eustis, lead author of the study, "Photography drones have cameras that lift the user visualization above the earth, creating videos and images that are dramatic and impactful. The devices are smart: They have sensors and software that permits automated response to camera input. Smart drones are evolving the ability to interconnect to smart phones, but drones are smart even without smart phone guidance systems. They have microprocessors that can be used to automate processes. Smart commercial drones connect seamlessly and securely to the Internet and to each other."

Use of drones represents a key milestone in provision of value to every industry. Customized cameras are used to take photos and videos with stunning representations. Digital controls will further automate flying, making ease of use and flight stability a reality. New materials and new designs are bringing that transformation forward. By furthering innovation, continued growth is assured. The worldwide market for camera drones is \$2 billion anticipated to reach \$21.5 billion by 2022. The complete report provides a comprehensive analysis of drones in different categories, illustrating the diversity of uses for remote flying devices that have high quality cameras on board. Analytics makes the images more cogent. Cameras used from the air are used to anticipate infrastructure problems that only become visible to humans on land days, weeks, or months after the drone images detect issues. Camera Drones, Video Drones, Aerial Images, Aerial Inspections, Aerial Mapping, Aerial Photography, Aerial Sports Photography, Camera Drone, Camera Drone Ecosystem, Drone Inspections, Drone Regulations, Camera Drone Technology, Film Industry Trends, Precision Agriculture, Camera Drone Regulations, Video Drone Research, Camera Drone Unmanned Aerial Systems (UAS), Drone 3D Mapping, Drone Commercial Observation, Camera Drone Border Patrol, Drone Surveillance, Drone Photography, Drone Visualization Agriculture, Aerial Refueling, Law Enforcement Drones, Video from the Air, Delivery by Air, Photography from the Air, Military Mission Support, Cameras On Stable Flying Platforms, Consumer Camera Systems, 3D Mapping, UAV

[Request A Sample](#) [Make An Enquiry](#) [Buy Now](#)

Table of Content:

Camera Drone Markets Executive Summary	34
Photography Consumer Drone Market Driving Forces	34
Drone Challenges	44
Drone Fleet Systems	45
Smart Drone Infrastructure Standards	46
Photography and Videography Smart Commercial Drone Aerial Systems	47
Photography Consumer Drone Market Shares	51
Smart Commercial Drone Market Forecasts and Sector Shares	53
1. Consumer Photography Drones: Market Description and Market Dynamics	55
1.1 Consumer Photography Smart Commercial Drones	55
1.1.1 Smart Drones: Commercial Unmanned Aerial Systems (UAS) Description	55
1.2 Photography Drone Enhanced Capability and Payloads	57
1.2.1 Unmanned Aerial Systems (UAS) Enhanced Resilience	59
1.2.2 Small and Micro-UAS Drones	59
1.2.3 Drone Aerial Systems (UAS) Perimeter Surveillance	59
1.2.4 Unmanned Aerial Systems (UASs) Surveillance	60
1.3 Photography Drone Use Cases	61
1.3.1 Drones on the Silver Screen	62
1.3.2 Follow Drones	62
1.3.3 Conducting a Solar Panel Inspection with eBee Drone	63
1.3.4 Quad-copter Drone Crosses the English Channel	63
1.3.5 Dutch Police Training Eagles to Take Down Drones	63
1.3.6 Star Wars Movie Used a Team of Drones to Protect Its Secrets	63
1.3.7 AT&T Uses LTE to Control Drones Over Long Distances	64
1.3.8 Traxxas Flight Link App	64
1.4 Registering Drones	64
1.5 Georeferenced Imagery	64
1.5.1 Unmanned Aerial Systems (UAS) Traffic Monitoring	65
1.5.2 Unmanned Aerial Systems (UAS) for Scientific Research	67
1.6 Globalization and Technology	68
1.6.1 Proliferation of Camera Drones to Promote Security	68
1.6.2 Drones General Roles	69
2. Photography Consumer Drone Market Shares and Forecasts	70
2.1 Photography Consumer Drone Market Driving Forces	70
2.1.1 Drone Challenges	80
2.1.2 Drone Fleet Systems	81
2.1.3 Smart Drone Infrastructure Standards	82
2.1.4 Photography and Videography Smart Commercial Drone Aerial Systems	83
2.2 Photography Consumer Drone Market Shares	87
2.2.1 Consumer Drones	91
2.2.2 China's DJI Leads Drone Markets	92
2.2.3 DJI Revenue Demonstrates Leadership Position	95
2.2.1 DJI Phantom	96
2.2.2 Parrot	97
2.2.3 3D Robotics	97
2.2.4 Parrot AR Drone \$299, Flies Off a Roof	99
2.2.5 Ascending Technologies AscTec Firefly	100
2.2.6 Ascending Technologies Professional Line	101
2.2.7 AscTec for Professional Drone Users:	101
2.2.8 Hubsan	102

2.2.9 Intel / Ascending Technologies	102
2.2.10 Draganflyer X4 UAV	102
2.2.11 DRS Unmanned Technologies Ground Control Stations	103
2.2.12 Proxy Aviation Systems	103
2.2.13 Google	103
2.3 Smart Commercial Drone Market Forecasts and Sector Shares	104
2.4 Drone Market Shares and Forecasts	108
2.4.1 Drone Unit Shipments	110
2.4.2 Drone Market Forecasts	110
2.4.3 Drone Industry Components	114
2.5 Photography And Videography Drone Applications	116
2.5.1 Smart Commercial Drone Film / Photo / Video	119
2.5.2 LiDAR	120
2.6 Commercial Drone Aerial Mapping	122
2.6.1 GIS Professionals Are Willing to Pay for Drone Systems	126
2.6.2 GIS Software	127
2.6.3 UAS-Camera Integration	128
2.6.4 Maps of Navigable Drone Highways in The Sky	128
2.6.5 Aerial Mapping Smart Commercial Drone Systems Forecasts	129
2.7 Real Estate Drones	130
2.8 Nano Drones Applications	132
2.8.1 Drone Miniaturization	133
2.9 Follow Me Drones	134
2.9.1 US FAA Commercial Drone Permits	135
2.10 Unmanned Aerial Systems Payloads	141
2.10.1 Composites Key to Utility	141
2.11 Venture Investment in Drones	142
2.11.1 Drones to Create 70,000 US Jobs	145
2.11.2 Drone Crowd Funding	146
2.12 Photography Consumer Drone Prices	147
2.12.1 Parrot AR Drone 2.0 Quadcopter Elite Edition	148
2.12.2 Parrot BeBop Drone Quadcopter with 14 Megapixel Flight Camera (Blue)	149
2.12.3 Parrot AR Drone 2.0 Quadcopter Elite Edition (Sand)	150
2.12.4 Parrot BeBop Drone Quadcopter with Skycontroller Bundle (Red)	151
2.12.5 Parrot BeBop Drone Quadcopter with 14 Megapixel Flight Camera (Red)	151
2.12.6 Parrot BeBop Drone Quadcopter with Skycontroller Bundle (Blue)	152
2.12.7 Parrot BeBop Drone Quadcopter with Skycontroller and Soft Case Bundle (Red)	152
2.12.8 Parrot BeBop Drone Quadcopter with Backpack Bundle (Blue)	153
2.12.9 Parrot BeBop Drone Quadcopter with Backpack Bundle (Red)	153
2.12.10 Parrot BeBop Drone Quadcopter with Hard Case Bundle (Blue)	154
2.12.11 Parrot BeBop Drone Quadcopter with Hard Case Bundle (Red)	154
2.12.12 Parrot BeBop Drone Quadcopter with Wheeled Hard Case Bundle (Blue)	155
2.12.13 Parrot BeBop Drone Quadcopter with Wheeled Hard Case Bundle (Red)	156
2.12.14 Parrot AR Drone 2.0 1500 mAh High Density Battery	156
2.12.15 Parrot LiPo Battery for AR.Drone 2.0 Quadcopter (11.1 V, 1000 mAh)	156
2.12.16 Parrot Battery for BeBop Drone and Skycontroller	157
2.12.17 Parrot Flight Recorder for AR. Drone 2.0 Quadcopter	157
2.12.18 Parrot Camera for BeBop Drone	157
2.12.19 Parrot Propellers for BeBop Drone (4-Pack, Red)	158
2.12.20 Parrot Wall Charger for BeBop Drone and Skycontroller	158
2.12.21 Parrot Skycontroller with Wi-Fi Range Extender for BeBop Drone (Red)	158
2.12.22 Parrot Repair Kit for BeBop Drone (Pair)	159
2.12.23 Parrot Feet Pack for BeBop Drone (4-Pack)	159
2.13 Photography Consumer Drone Regional Market Analysis	162
2.13.1 Smart Drone Commercial (UAV) Industry Regional Summary	165

2.13.2 U.S Accounts for 73 Percent of The Worldwide Research, Development, Test, And Evaluation (RDT&E) Spending On Smart Drone Technology	166
2.13.3 U.S. State Department Drone Export Guidelines	168
2.13.4 Canada	168
2.13.5 Europe	169
2.13.6 UK Trade in Drones	170
2.13.7 Drones for the Netherlands	170
2.13.8 Japan	171
2.13.9 Sony Drone Services	173
2.13.10 Japanese Drone Works Inside the Nuclear Power Plant	175
2.13.11 China	177
2.13.12 Chinese Smog-Fighting Drones That Spray Chemicals To Capture Air Pollution	179
2.13.13 China Desires Exports, Steps Up Research In Military Drones	181
2.13.14 Chinese Commercial Drones	183
2.13.15 Singapore	184
2.13.16 Africa	185
2.13.17 Expansion of US Drone Base in Africa	186
2.13.18 Ethiopia	188
2.13.19 Brazil	188
2.13.20 Morocco	189
2.13.21 India	190
3. Photography Drones Product Description	191
3.1 DJI	191
3.1.1 DJI Phantom	192
3.1.2 DJI Inspire 1	194
3.1.3 DJI Ronin	195
3.1.4 DJI Ronin Major Updates:	196
3.1.5 DJI Industries Phantom 3 Drone	204
3.1.6 DJI Industries Phantom 3 Drone Live HD View	205
3.1.7 DJI Industries Phantom 3 Drone Complete Control	206
3.1.8 DJI Industries Phantom Intelligent Battery	208
3.1.9 DJI Industries Inspire Drone	210
3.1.10 DJI Industries Ronin-M	212
3.1.11 DJI Industries Spreading Wings S1000+	215
3.1.12 DJI Industries Zenmuse Z15-A7	217
3.1.13 DJI Flying Platforms	219
3.1.14 DJI Flight Controllers	221
3.1.15 DJI Camera Gimbals	224
3.1.16 DJI HD Video Downlink	228
3.1.17 DJI Ground Stations	228
3.1.18 DJI Guidance	230
3.2 Parrot S.A.	230
3.2.1 Parrot Bebop Drone Stability	231
3.2.2 Parrot AR.Drone \$299, Flies Off a Roof	234
3.3 GoPro	236
3.3.1 GoPro Recorded Video Can Be Stitched Together Using Kolor	236
3.4 3D Robotics	237
3.4.1 3D Robotics Launches Line of Mapping Drones	239
3.5 AeroVironment	240
3.5.1 AeroVironment Global Observer	241
3.5.2 AeroVironment RQ-20A Puma AE	245
3.5.3 AeroVironment Wasp AE	247
3.5.4 AeroVironment Shrike VTOL	248
3.5.5 AeroVironment Ground Control System	250
3.5.6 BP and AeroVironment Launch FAA-Approved, Commercial Unmanned Aircraft Operations	251

3.5.7 AeroVironment Integrated LiDAR Sensor Payload	256
3.5.8 AeroVironment and Commercial UAV	258
3.5.9 AeroVironment AV's Family of Small UAS	260
3.5.10 AeroVironment Raven	261
3.6 Textron Nano Air Vehicle	263
3.7 Draganfly Innovations Inc.	264
3.7.1 Draganfly Draganflyer X4-P	264
3.7.2 Draganfly Handheld Ground Control System	266
3.7.3 Draganflyer Vision Based System (VBS)	266
3.7.4 Draganflyer Guardian	268
3.7.5 Draganfly X4	270
3.7.6 Draganflyer X6	276
3.7.7 Draganflyer Aerial Photography & Video Applications	278
3.7.8 Draganflyer Real Estate Applications	279
3.7.9 Draganflyer Law Enforcement Applications	280
3.7.10 AscTec Compliance	283
3.7.11 Draganflyer X8	284
3.8 TRNDlabs SKEYE Nano Drone	286
3.9 Ascending Technologies	288
3.9.1 Ascending Technologies Professional Line	289
3.9.2 AscTec For Professional Drone Users:	289
3.9.3 Ascending Technologies For Professional UAV	290
3.9.4 AscTec Falcon 8 + InspectionPRO	294
3.9.5 AscTec Falcon 8 + VideoEXPERT	296
3.9.6 AscTec Firefly	296
3.9.7 Technical Data – AscTec Firefly	296
3.10 Hexo+	298
3.11 Wingsland	299
3.12 EHang	301
3.12.1 Ehang GhostDrone 2.0	301
3.13 Prox Dynamics Black Hornet Nano:	303
3.14 senseFly eBee:	304
3.15 Ballistic UAV Game of Drones	304
3.16 Bluefin Robotics Bluefin 21:	305
3.17 Yuneec	305
4. Drone Technology and Research	306
4.1 Development of Lighter Yet More Powerful Drone Power Sources	306
4.2 Sense and Avoid Technology	309
4.2.1 Learning to Fly a Hobby or Commercial Drone	310
4.2.2 US FAA Launches Drone Safety Campaign	310
4.3 UAS Sense and Avoid Evolution Avionics Approach	312
4.4 Drone Regulation	320
4.4.1 Drone Test Sites Selected by the FAA	323
4.4.2 Drone Exemptions	324
4.4.3 FAA Plans Final Regulation on Commercial Drone Use by Mid-2016	326
4.5 Cloud Computing and Multilayer Security	326
4.6 Draganflyer X4 Flying	328
5. Drone and Remote Control Company Description	333
5.1 3D Robotics	333
5.1.1 3D Robotics Acquisition of Sifteo	334
5.2 AeroVironment	335
5.2.1 AeroVironment Revenue 2015	335
5.3 Aeryon Labs	339
5.3.1 Aeryon Small Unmanned Aerial Systems (sUAS)	340
5.4 AgEagle	341

5.5 Airogisitic	345
5.6 Airware	346
5.6.1 Airware Components of its Aerial Information Platform	349
5.6.2 Airware's AIP Business Model	350
5.6.3 Airware Investment from Intel Capital	350
5.7 Amazon	351
5.8 ASN Technologies	352
5.9 Aurora Flight	354
5.9.1 Aurora 2013 Employee Exceptional Service Award	355
5.10 Aviation Industry Corp (AVIC)	355
5.10.1 Aviation Industry Corp / Thielert	356
5.11 BlueSKy	357
5.11.1 Cyberhawk World Leader In Using UAVs To Inspect Industrial Facilities In Oil And Gas	358
5.11.2 Bluesky	359
5.12 Cybaero	360
5.12.1 Cyphy Microfilament Technology	364
5.12.2 CyPhy Works Microfilament	365
5.13 Intel / Cyberhawk Innovations	366
5.13.1 Cyberhawk Innovations ROAV Inspection for The Offshore Oil & Gas Industry	368
5.14 Delair-Tech	370
5.15 Denel Dynamics	372
5.16 Disney	373
5.17 DJI	373
5.17.1 DJI Agricultural Spraying Drone	376
5.17.2 DJI Inspire 1	377
5.17.3 DJI Technology Chinese Crop Spraying Drone	379
5.18 Draganflyer	382
5.18.1 DraganBot	383
5.18.2 Draganflyer ABEX Awards	385
5.19 Drone Innovation Holding Company	386
5.20 EHang	387
5.21 Enertis	390
5.22 Finmeccanica	391
5.22.1 DRS Technologies	392
5.23 Flirtey	394
5.24 FT Sistemas	394
5.25 Google	395
5.25.1 Google Revenue	398
5.25.2 Google Revenues by Segment and Geography	401
5.25.3 Google / Boston Dynamics	401
5.25.4 Boston Dynamics CHEETAH - Fastest Legged Robot	404
5.25.5 Boston Dynamics Atlas - The Agile Anthropomorphic Robot	405
5.25.6 Boston Dynamics BigDog	407
5.25.7 Boston Dynamics LittleDog - The Legged Locomotion Learning Robot	408
5.25.8 Google Robotic Division	410
5.25.9 Google Self-Driving Car	410
5.25.10 Google Cars Address Vast Majority Of Vehicle Accidents Due To Human Error	412
5.25.11 Google Business	413
5.25.12 Google Corporate Highlights	414
5.25.13 Google Search	415
5.26 GoPro	416
5.26.1 GoPro Second Quarter 2015 Highlights	417
5.26.2 GoPro Opular Mount	420
5.26.3 GoPro Revenue Surges 54% As It Gains Popularity Abroad	420

5.26.4 GoPro Acquires Kolor, A Virtual Reality Company	421
5.27 Gryphon	422
5.28 Hobbico	423
5.29 Hubsan	424
5.30 HUVRData, LLC	425
5.31 Intel	428
5.31.1 Intel Company Strategy	430
5.31.2 Intel Realsense Cameras And Ascending Technologies' Asctec Trinity	432
5.31.3 Intel Capital	433
5.31.4 Intel / Ascending Technologies	434
5.31.5 Ascending Technologies	434
5.31.6 Intel Acquires Ascending Technologies!	435
5.31.7 Ascending Technologies	435
5.31.8 Ascending Technologies AscTec Firefly	437
5.31.9 Drone: Asctec Firefly with Intel Realsense	437
5.31.10 Ascending Technologies and Intel Collaboration to Develop Drone Collision Avoidance Technology	438
5.31.11 Ascending Technologies Asctec Firefly / Intel RealSense Camera	439
5.31.12 Intel Realsense Cameras and Ascending Technologies' Asctec Trinity	440
5.31.13 AscTec Falcon 8	441
5.31.14 Topcon Distribution Partnership with Ascending Technologies	441
5.32 Japan Drones	441
5.33 Parrot/senseFly	443
5.33.1 Parrot Group / senseFly	443
5.33.2 Parrot Group senseFly CTI Certified	444
5.33.3 Parrot Drone First Quarter Sales For 2015 Up 356 Percent	445
5.34 Prox Dynamics	447
5.35 Proxy Technologies	449
5.36 Roketsan	450
5.37 RUAG Aerospace	451
5.38 Secom	454
5.38.1 Japanese Security Company To Offer Private Security Drones	454
5.39 Skycatch	456
5.40 Sky-Futures	456
5.41 TeamUAV	459
5.42 TRNDlabs	460
5.43 XAircraft	460
5.44 Yuneec	463
5.45 Drone Market Participants WorldWide	466
5.45.1 Military Manufacturers	494
5.45.2 Top Drone Products	512
5.45.3 FAA Approved Drone Projects	513
WinterGreen Research,	523
WinterGreen Research Research Methodology	524

[Request A Sample Make An Enquiry Buy Now](#)

About Us:

WinterGreen Research Reports is a company that simplifies how analysts and decision makers get industry data for their business. Our unique colossal technology has been developed to offer refined search capabilities designed to exploit the long tail of free market research whilst eliminating irrelevant results. WinterGreen Research Reports is the collection of market intelligence products and services on the Web. We offer reports and update our collection daily to provide you with instant online access to the worlds most complete and current database of expert insights on global industries, companies, products, and trends.

WinterGreen Research Reports is your single hotspot for all real looking over prerequisites. With expansive data

about the distributors and the associations for which they disperse verifiable checking on reports, we help you in your buy choice by mapping your data needs with our gigantic gathering of reports.

Contact Us:

Wintergreen Research Reports

42 Todd Pond Road,
Lincoln, MA 01773,
United States.

Email:

sales@wintergreenresearchreports.com

Follow Us:

[Facebook](#) [Twitter](#) [Linkedin](#)